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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/620,726	07/15/2003	Charles L. Gray JR.	310121.404	9061	
34212 759	90 09/08/2006		EXAM	INER	
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC			AVERY, BI	AVERY, BRIDGET D	
701 FIFTH AVE	ENUE		•		
SUITE 6300			ART UNIT	PAPER NUMBER	
SEATTLE, WA	98104-7092		3618		
			DATE MAILED: 09/08/2000	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/620,726	GRAY, CHARLES L.				
		Examiner	Art Unit				
		Bridget Avery	3618				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMU 6(a). In no event, however, ma ill apply and will expire SIX (6) I cause the application to becom	NICATION. If a reply be timely filed  IONTHS from the mailing date of this communication.				
Status							
1)⊠	Responsive to communication(s) filed on 31 Ma	ay 2006.					
, —	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)⊠	Claim(s) 1-16,19-27 and 41-43 is/are pending i 4a) Of the above claim(s) 17 and 18 is/are with Claim(s) is/are allowed.  Claim(s) 1-14,19,20,25-27,42 and 43 is/are rejection(s) 15,16,22 and 41 is/are objected to.  Claim(s) are subject to restriction and/or	drawn from considerat	on.				
Applicati	ion Papers						
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Example 1.	epted or b) objected frawing(s) be held in abe on is required if the draw	yance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).				
Priority u	under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) comparison Disclosure Statement(s) (PTO/SB/08) cr No(s)/Mail Date	Paper	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application 				

#### **DETAILED ACTION**

1. Applicant's arguments filed May 31, 2006, with respect to the rejection(s) of claim(s) 1-13 and 19-27 under 35 U.S.C. 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of McGowan (US Patent 4,297,086).

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-13, 25-27, 42 and 43 are rejected under 35 U.S.C. 102(b) as being anticipated by McGowan (US Patent 4,297,086).

McGowan teaches an assembly similar to applicant's including:

- > A first and second pump/motor (14)
- > A first and second drive plate assembly (66)
- > A common shaft (46)
- > The plate assemblies (66) are in hard contact with a first and second end of the shaft (46), respectively, in a plane perpendicular to the longitudinal axis of the shaft (46)

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> The plate assemblies (66) and shaft (46) acting as a solid element when under compression to cancel axial loads generated by the pump/motors (14) through the shaft (46)

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- > A first and second annular bearing (56)
- ➤ A spacer/key (68) provided in the gap between annular bearing (56) and plate (66), as shown in Figure 1 where the plate (66) is in light contact with the bearing (56)
- ➤ A torque transferring assembly/unit (38, 40)
- See column 6, lines 43-58 and column 7, lines 1-27. Re claim 7, see column 4, lines 40-54. Re claims 4 and 11, note the shaft portion of plate (66) that extends over shaft (46) below the spacer/key (68). Re claims 6 and 10, the bearings are positioned in the housing/cylinders (26). Re claims 25 and 27, the method of operating a plurality of pump motors and the method of improving the efficiency of two or more opposing pump/motors is inherently disclosed. The rational for this inherency is that the prior art device, in its normal and usual operation, would necessarily perform the claimed method. See MPEP 211.02. Re claims 42 and 43, the pistons (88) are actuators that control displacement changes of each of the first and second pump/motors to balance pressure.
- 3. Claims 19-21 are rejected under 35 U.S.C. 102(b) as being anticipated by McGowan ('086).

McGowan teaches an assembly similar to applicant's including:

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First and second pump/motors (14)

- ➤ A torque transferring device (38, 40)
- ➤ A first and second bearing (54) coupled to a common shaft (46)
- ➤ A housing (26)
- First and second seals (30)
- The seals divide the housing into a first, second and third region, as shown in Figure 1.
- > Re claim 21, see column 5, lines 49-68
- 4. Claims 23 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by McGowan ('086).

McGowan teaches an assembly similar to applicant's including:

- > First and second pump/motors (14)
- > A torque transferring device (38, 40)
- > A shaft defined by the pistons coupled by integrally formed forks (34)
- > The torque transferring device including gears/spokes that transmit torque from the pistons/shaft (24) to a second shaft (46)

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over McGowan ('086).

McGowan teaches the features described above.

McGowan lacks the teaching of the spacer/key having a thickness sufficient to just bridge the distance between respective drive plates and bearings.

It would have been obvious to one having ordinary skill in the art, at the time the invention was made, to increase the thickness of the spacer/key, since such a modification would have involved a mere change in size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art.

## Allowable Subject Matter

- 6. Claims 15, 16, 22 and 41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Any inquiry concerning this communication should be directed to Bridget Avery at

telephone number 571-272-6691.

September 5, 2006

CHRISTOPHER P. ELLIS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600